



INTERSTATE 495
(PUBLIC-VARIABLE WIDTH)

UPPER UNION STREET
(PUBLIC-VARIABLE WIDTH)
TWO WAY TRAFFIC
(ASPHALT ROADWAY)

NOTE: TIME OF CONCENTRATION (TC)
SHALL BE 6 MINUTES

DP1

P1

AREA=19,695 SF

12" PVC STUB
INV.=306.65±

16" RCP STUB
INV.=303.75±

APPROX. DRY
INV.=308.95

1 STORY
MASONRY BUILDING



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PERMIT SET

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PROJECT No.: W211057
DRAWN BY: NPD
CHECKED BY: RMM
DATE: 02/01/2022
CAD I.D.: W211057-CVL-3

PROJECT:

PROPOSED SITE PLAN DOCUMENTS

FOR

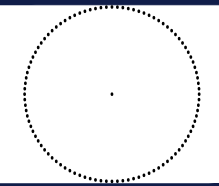
TMC HOLDINGS &
DEVELOPMENT 2, LLC

PROPOSED
INDUSTRIAL DEVELOPMENT
UNION STREET BUSINESS PARK II
MAP #314, BLOCK #20, LOT #1
839 UPPER UNION STREET
CITY OF FRANKLIN
NORFOLK COUNTY, MA

BOHLER //

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900

www.BohlerEngineering.com



SHEET TITLE:

PROPOSED CONDITIONS WATERSHED MAP

SHEET NUMBER:

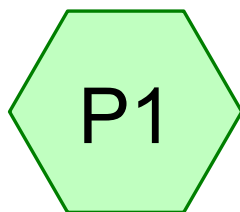
WS-PR

REVISION 3 - 05/17/22

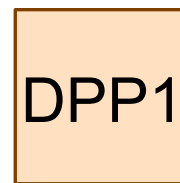
BOHLER //

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
PLANNING AND DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

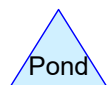
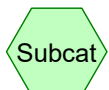
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to Wetlands



Wetlands



Routing Diagram for W211057 Model

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W211057 Model

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Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.451	61	>75% Grass cover, Good, HSG B (P1)
0.001	98	Paved parking, HSG B (P1)
0.452	61	TOTAL AREA

W211057 Model

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Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.452	HSG B	P1
0.000	HSG C	
0.000	HSG D	
0.000	Other	
0.452		TOTAL AREA

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Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.451	0.000	0.000	0.000	0.451	>75% Grass cover, Good	P1
0.000	0.001	0.000	0.000	0.000	0.001	Paved parking	P1
0.000	0.452	0.000	0.000	0.000	0.452	TOTAL AREA	

W211057 Model*Type III 24-hr 2 yr Rainfall=3.20"*

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Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment P1: to Wetlands

Runoff Area=19,695 sf 0.32% Impervious Runoff Depth>0.44"

Tc=6.0 min CN=61 Runoff=0.14 cfs 0.017 af

Reach DPP1: Wetlands

Inflow=0.14 cfs 0.017 af

Outflow=0.14 cfs 0.017 af

Total Runoff Area = 0.452 ac Runoff Volume = 0.017 af Average Runoff Depth = 0.44"
99.68% Pervious = 0.451 ac 0.32% Impervious = 0.001 ac

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Type III 24-hr 2 yr Rainfall=3.20"

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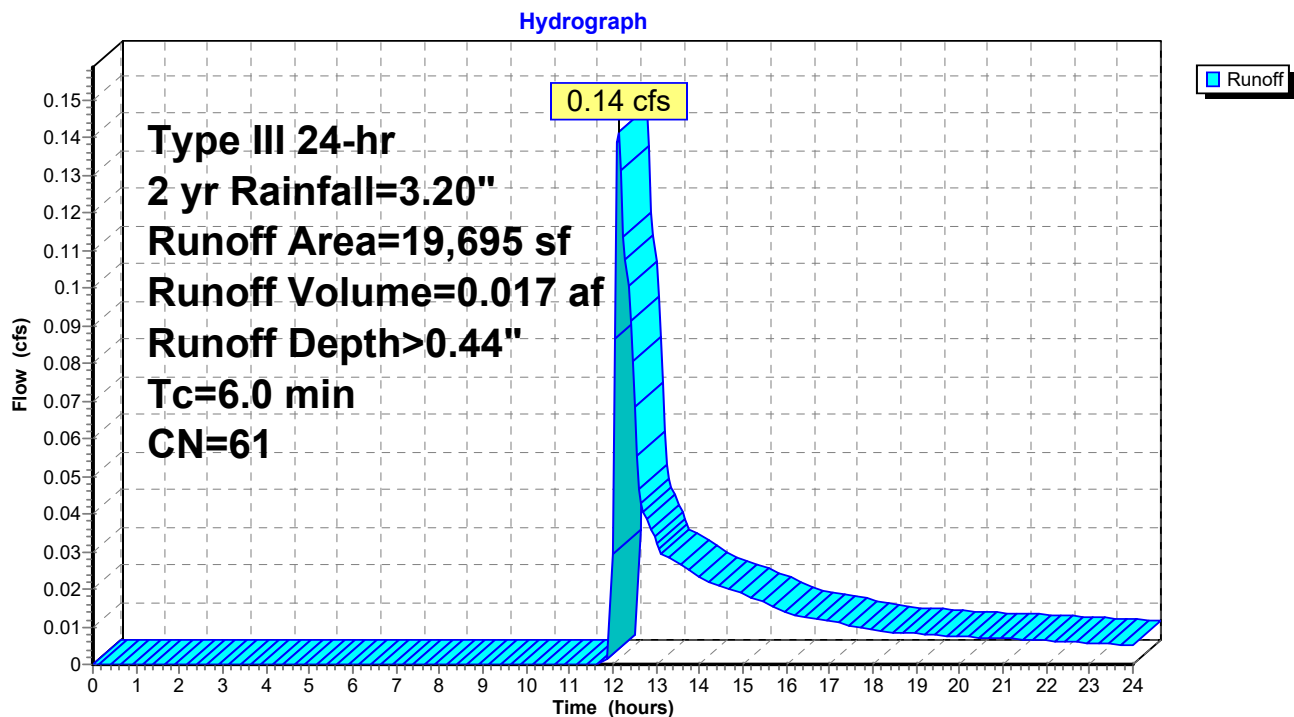
Summary for Subcatchment P1: to Wetlands

Runoff = 0.14 cfs @ 12.13 hrs, Volume= 0.017 af, Depth> 0.44"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2 yr Rainfall=3.20"

Area (sf)	CN	Description
19,631	61	>75% Grass cover, Good, HSG B
64	98	Paved parking, HSG B
19,695	61	Weighted Average
19,631		99.68% Pervious Area
64		0.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, Direct

Subcatchment P1: to Wetlands

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Type III 24-hr 2 yr Rainfall=3.20"

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Summary for Reach DPP1: Wetlands

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.452 ac, 0.32% Impervious, Inflow Depth > 0.44" for 2 yr event
Inflow = 0.14 cfs @ 12.13 hrs, Volume= 0.017 af
Outflow = 0.14 cfs @ 12.13 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Reach DPP1: Wetlands

